



UniGene

ORGANIZED VIEW OF THE TRANSCRIPTOME

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[Protein](#)
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NCBI

UGID:135608 UniGene Hs.28914 Homo sapiens (human) APRT

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Adenine phosphoribosyltransferase (APRT)

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SELECTED PROTEIN SIMILARITIES

Comparison of sequences in UniGene with selected protein reference sequences. The alignments can suggest function of a gene.

	Reference Protein	Species	Id (%)	Len (aa)
XP_001138089.1	PREDICTED: adenine phosphoribosyltransferase isoform 2	<i>P. troglodytes</i>	100.0	179
NP_000476.1	adenine phosphoribosyltransferase isoform a	<i>H. sapiens</i>	100.0	179
XP_001331572.1	PREDICTED: hypothetical protein	<i>D. rerio</i>	61.6	176
NP_476637.1	Adenine phosphoribosyltransferase CG18315-PA, isoform A	<i>D. melanogaster</i>	54.1	180
NP_013690.1	Adenine phosphoribosyltransferase, catalyzes the formation of AMP from adenine and 5-phosphoribosylpyrophosphate; involved in the salvage pathway of purine nucleotide biosynthesis; Apt1p	<i>S. cerevisiae</i>	52.8	178
NP_491663.1	T19B4.3	<i>C. elegans</i>	50.9	177
NP_193988.1	APT3 (ADENINE PHOSPHORIBOSYL TRANSFERASE 3); adenine phosphoribosyltransferase	<i>A. thaliana</i>	50.0	182
XP_963727.2	adenine phosphoribosyltransferase	<i>N. crassa</i>	49.7	169

GENE EXPRESSION

Tissues and development stages from this gene's sequences survey gene expression. Links to other NCBI expression resources.

[Expression Profile:](#) View expression levels using UniGene's EST ProfileViewer

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[GEO profiles:](#) Gene expression profiles in the NCBI Gene Expression Omnibus database

[cDNA Sources:](#) skin; prostate; mixed; mammary gland; brain; uncharacterized tissue; kidney; placenta; pancreas; lung; blood; intestine; eye; ovary; bone marrow; uterus; embryonic tissue; testis; lymph node; parathyroid; heart; cervix; vascular; epididymis; thymus; tonsil; ascites; pharynx; stomach; connective tissue; mouth; bone; muscle; bladder; esophagus; adrenal gland; larynx

MAPPING POSITION

Genomic location specified by transcript mapping, radiation hybrid mapping, genetic mapping or cytogenetic mapping.

EXHIBIT

2a

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Chromosome:	16	
Map position:	16q24	
UniSTS entry:	Chr 16	RH70957
UniSTS entry:	Chr 16	RH68125

SEQUENCES

Sequences representing this gene; mRNAs, ESTs, and gene predictions supported by transcribed sequences.

mRNA sequences (7)

NM_000485.2	Homo sapiens adenine phosphoribosyltransferase (APRT), transcript variant 1, mRNA	P
CR622599.1	full-length cDNA clone CS0DF032YG06 of Fetal brain of Homo sapiens (human)	
CR749423.1	Homo sapiens mRNA; cDNA DKFZp686D13177 (from clone DKFZp686D13177)	PA
NM_001030018.1	Homo sapiens adenine phosphoribosyltransferase (APRT), transcript variant 2, mRNA	P
BC106894.2	Homo sapiens cDNA clone IMAGE:40030896	P
BC107151.2	Homo sapiens adenine phosphoribosyltransferase, mRNA (cDNA clone MGC:129961 IMAGE:40032160), complete cds	P
BC106895.2	Homo sapiens cDNA clone IMAGE:40030901	P

EST sequences (10 of 339) [Show all sequences]

AA927724.1	Clone IMAGE:1552758	uncharacterized tissue	3' read P
AI024517.1	Clone IMAGE:1631381	mammary gland	3' read P
AI057638.1	Clone IMAGE:1667485	parathyroid	3' read
AI074181.1	Clone IMAGE:1681948	skin	3' read PA
AI081536.1	Clone IMAGE:1555734	kidney	3' read PA
AI143089.1	Clone IMAGE:1705601	heart	3' read
AI146459.1	Clone IMAGE:1707643	heart	3' read P
CB049707.1	Clone IMAGE:3271415	prostate	3' read
CB049708.1	Clone IMAGE:3271415	prostate	5' read A
AI148066.1	Clone IMAGE:1839714	testis	5' read P

[Download Sequences](#)
Key to Symbols

P Has similarity to known Proteins (after translation)
A Contains a poly-Adenylation signal

EXHIBIT

2b

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S Sequence is a Suboptimal member of this cluster
M Clone is putatively CDS-complete by MGC criteria



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EXHIBIT

2c

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